* QUALITY ASSURANCE PROVISIONS

NSN: 3110-01-136-4130 P/N:(78286) 65951-07528-201

NOMENCLATURE: Bearing, Ball, Annular

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (78286) 65951-07528 REV. " E2 " or latest revision and all details and specifications referenced therein.

I. QUALITY/INSPECTION REQUIREMENTS

- A. MIL-I-45208 or ISO 9000 Equivalent applies:
- **B.** First Article Testing applies:
- C. Production Lot Testing applies:
- D. Mandatory Inspection applies:

II. SUPPLEMENTAL REQUIREMENTS

- A. Additionally, para. 3.1, 3.5, 5.1, 5.2, 6.1, 6.2 of MIL-Q-9858 or ISO 9000 equivalent applies.
- **B.** The contractor shall include on the detailed process operation sheets developed, a tracking method that is traceable to the contract, all in-house manufacturing processes and the identity of all manufacturing sources performing process/operations outside of their facilities. These sheets shall not be revised or altered after the successful completion of FIRST ARTICLE OR PRODUCTION LOT TESTING without the approval from the basic design engineering activity via the P.C.O..
- C. The inspection method sheets which list the characteristics of each item produced under the contract shall have serial number traceability to the raw material, casting, or forging. The tracking method used on the inspection/method sheets shall be traceable to the contract. In addition, the contractor is responsible for providing completed inspection method sheets showing the actual dimensions taken of all critical characteristics.
- **D.** Markings should be I/A/W MIL-STD-130 REV."L" para. 5.3.3(a),(b),(c),(g). Method and location shall be I/A/W the drawing.

III. MANDATORY INSPECTION REQUIREMENTS:

During production, mandatory inspection is required to be accomplished by the contractor as follows:

A. LEVEL OF INSPECTION (L.O.I.)

- 1) Critical Characteristics: 100% inspection and documentation of dimensions taken shall apply
- 2) Major and Minor Characteristics: L.O.I. shall be I/A/W a sampling plan acceptable to the Q.A.R..

B. CRITICAL CHARACTERISTICS FOR:

Sikorsky Aircraft P/N: (78286) 65951-07528

1) 6.4963 Dia. Zone 5C 6.4953

2) 4.5278 Dia. Zone 6C 4.5270

3) 3.0221

2.9921 Zone 6D

4) 2.8346 Zone 6D 2.8046

5) Data Block Zone 3,4 D

6) Data Block Zone 3,4 C

C. MAJOR AND MINOR CHARACTERISTICS:

- 1) Shall be defined by the contractor subject to Q.A.R. concurrence, unless defined on applicable drawings and associated specifications.
- IV. Unless expressly provided for elsewhere in this clause, equipment such as FIXTURES, JIGS, DIES, PATTERNS, TEMPLATES, MYLARS, SPECIAL TOOLING, TEST EQUIPMENT, or any other manufacturing aid required for the manufacture and/or testing of the subject item will not be provided by the government or any other source and is the sole responsibility of the contractor. The foregoing applies notwithstanding any reference to such

equipment or the furnishing thereof that may be contained in any drawing or referenced specification.

(2)

FIRST ARTICLE TEST REQUIRED (GOVERNMENT TESTING)

I. First Article Inspection/Test Criteria:

The tests to be performed under the contract approval clause of the contract are:

- A. Dimensional Check 100%
- B. Form/Fit
- C. Identification
- D. NDI
- E. Material Analysis
- F. Visual: Verification of the overall workmanship
- G. Compliance with drawing, (78286) 65951-07528 REV." E2 ", or latest revisions, associated drawings, , and specifications referenced therein.
- H. Packaging and Preservation: Verification that the parts have been preserved and packaged per the requirements of the contract.
- I. Review documentation as provided under DD 1423 requirements.

In addition to the above tests, the First Articles are to be delivered hereunder shall also be subjected to those tests which will demonstrate that the articles comply with contract requirements.

The contractor shall be responsible for providing necessary parts and repair of the First Article Samples during testing.

II. Samples to be submitted for testing: Quantity: Two (2)

- A. Estimated cost: TBD
- B. Waiver of First Article Testing Requirements may be granted for: (78286) Sikorsky Aircraft

III. Testing shall be performed at the Government Designated facility listed below:

Naval Air Depot First Article Test –Sta. 31B Attn: Code 3.3.2 (252) 464-7748 Bldg 154B Cleveland Dr. MCAS Cherry Point, NC 28533

IV. Special Instructions:

- A. Contractor shall provide Two samples.
- B. Samples may be considered as production items under the contract provided that the samples can be refurbished to ready for issue (RFI) condition and that the samples have inspection approval of the cognizant Q.A.R.. Samples may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.
- C. Samples will be returned to the contractor if not destroyed in testing
- D. Estimated Production Lead-Time Schedule:
 - 1. Submission of the First Article samples by the contractor: 180 days
 - 2. Analysis of FAT report and notification to contractor: 45 days
 - 3. Production delivery after First Article acceptance: 90 days
 - 4. Total accumulated calendar days 315 days

NOTIFICATION OF SHIPMENT OF MATERIAL FOR GOVERNMENT TESTING

Fourteen (14) days prior to shipment of First Article Samples, the contractor shall notify the designated test facility, in writing of the anticipated shipping date, with an information copy to the P.C.O.. The contractor shall also arrange for preliminary inspection of test samples by the CAO/QAR.

Upon shipment of First Article Samples, two (2) copies of the Material Inspection and Receiving Report (DD Form 250), bearing the QAR's signature and indication of preliminary inspection, shall be forwarded to the designated test facility. The envelopes shall be clearly marked. "DO NOT OPEN IN MAILROOM".

Within 105 days after receipt of the samples, the test site shall complete testing/evaluation and submit two (2) copies of their test report with conclusions and recommendations to the P.C.O..

Disposition instruction must be provided to NADEP Cherry Point First Article coordinator.

(5)

PRODUCTION LOT TESTING REQUIREMENTS (GOVERNMENT TESTING)

The material produced under contract shall be accepted by the cognizant CAO/QAR contingent upon the successful completion of these requirements.

I. Production Lot Test Sampling Requirements:

- A. The cognizant CAO/QAR shall select two (2) items at random from the first production lot produced. In addition the QAR shall select one (1) item at random from each successive lot or portion thereof.
- **B.** Production Lot Testing to be completed during production after First Article approval.
- C. First Production Lot samples, 2 ea.; Samples shall have corrosive areas coated with a light preservative. Each successive Production Lot samples shall have corrosive areas coated with a light preservative.

- II. The tests to be performed under the Production Lot Sample testing provisions of the contract are:
 - A. Compliance with drawing, (78286) 65951-07528 REV. "E2" and associated drawings, latest revisions, and specifications referenced therein.
 - B. Form/Fit
 - C. Dimensional Check 100%
 - D. Visual: Verification of the overall workmanship
 - E. Packaging and Preservation: Verification that the parts have been preserved and packaged per the requirements of the contract.
 - F. Review of documentation as provided under CDRL, DD1423

In addition to the above tests, the Production Lot Samples to be delivered hereunder shall also be subjected to those tests which will demonstrate that the samples comply with contract requirements.

(6)

III. Testing Location, Cost and Estimated Lead-time:

- A. Ship samples/Data to NADEP, Cherry Point, POC: Code: 3.3.2
- B. Shipping container marking: NON RFI
- C. Estimated Cost for Inspection/Test is TBD.
- D. Estimated Lead-time for Inspection/Test is TBD.

Within fifteen days of completion of Production Lot Testing, the CAO/QAR shall prepare and submit two copies of the test report with conclusions and recommendations to the contracting officer.

IV. Shipment and Distribution of Samples:

A. Fourteen (14) days prior to shipment of production lot samples, the contractor shall notify the designated test facility, in writing, of the anticipated shipping date.

with an information copy to the P.C.O.. The contractor shall also arrange for preliminary inspection of the test samples by the CAO/QAR.

- B. Upon shipment of Production Lot Samples, two (2) copies of the Material Inspection and Receiving Report (DD Form 250), bearing the QAR'S signature and indication of preliminary inspection, shall be forwarded to P.C.O. and to the designated test facility. The envelope shall be clearly marked. "DO NOT OPEN IN MAILROOM".
- C. Samples may be considered as production items under the contract provided the samples can be refurbished to Ready For Issue (R.F.I.) condition and provided the samples have inspection approval of the cognizant CAO/QAR. Samples may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.
- **D.** Samples will be returned to the contractor. Disposition instructions must be provided to NADEP Cherry Point First Article Coordinator.
- E. The designated test facility and the contracting officer shall be notified as to all shipping data applicable to the samples, such as bill of lading number, method of shipment, etc... 14 days prior to shipment.

	DATA REQUIRE	MENTS	LIS	T	<u> </u>		m Appro		8		
for reviewing i reviewing the c information, in Directorate for Respondents sho	orting burden for thi nstructions, searchi collection of informa coluding suggestions Information Operati	ng existing tion. Ser for reductions and Return twithstand	ng data nd comm ing thi eports ding an	sources, gath ents regarding s burden, to D (0704-0188), 1 y other provis	ering and main this burden en epartment of De 215 Jefferson I ion of law, no a currently vo Issuing Contra	tainin stimat efense pavis perso alid C acting	te or any se, Washing Highway, son shall bo	a needed, other asp ton Headq Suite 120 e subject l number.	and c ect of warter 4, Arl to an Plea	ington, VA 22202-4302. y penalty for failing use DO NOT RETURN your	
	LINE ITEM NO.	B.EX	HIBIT		C.CATEGORY:	TMI		OTHER	_		
D. SYSTEM/I	TEM	E.CO	NTRACT	r/PR NO.	F. CONTRAC			- VIIIIA			
	01-136-4130				2 01177777	_					
1.DATA ITEM NO.		TEM CATION D	ATA REI	PORT	3.SUBTITLE	со	MPLETED P	ROCESS/OP	ERATIO	n sheets	
	ata Acquisition Docum	ent No.)		TRACT REFERENCE		6.RE	QUIRING OF		CENTE	ER PHILADELPHIA	
7.DD250 REQ	9.DIST STATEMENT REQUIRED	10FREQUEN		SPECIFICATION 12DATE OF FIR		14.D)ISTRIBUTIO				
LT		AS REQUIR		SEE BLK, 16*				b. COPI	ES		
8.ADP CODE A	Ţ	11.AS OF	DATE	13.DATE OF SU SUBMISSION	BSEQUENT	a. A	A. ADDRESSEE Draft Final Reg Repro CAO/QAR */*** 1/0 DSCP/PCO */*** 1/0		Draft Final		
î				SEE BLK. 16**	/***					Repro	
16.REMARKS				T MEGMANIC							
* AT TIME O	F COMPLETION OF	FIRST A	RTICE	LTESTING				*/***	1/0		
** UPON SUB	MISSION OF PROD	UCTION	LOT	SAMPLES							
*** 10 TUC DE	ROCESS OPERATIO	NS CHAI	NGE A	ETER APPRO	VAL OF	-		ļ	 		
	JCTION LOTTESTI										
riksi rkodu	JCHON LOTTEST	NO/I KOL	JUCII	ON LOI SAM	LLS			<u> </u>	ļ		
								<u> </u>	ļ		
								 	┼		
						15.			3/0		
1.DATA ITEM NO	. 2.TITLE OF DATA	ITEM			3.SUBTITLE	1 15.7	TOTAL		3/0		
						_					
0002 4.AUTHORITY (D	eata Acquisition Docu	FICATION D		PORT NTRACT REFEREN	CE		OMPLETED I E2QUIRING		METHO	OD SHEETS	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DI-MISC-80678										
7.DD 250 REO	9.DEST STATEMET	10.FREQU	ENCY	C-321 SPECIE 12.DATE OF FI	RST SUBMISSION	-	DEFE	NSE SUPPL	I CENT	ER PHILADELPHIA	
LT	REQUIRIED	AS REQU			LK. 16*		DISTRIBUTI	ON			
8.ADP CODE		11AS OF	DATE	13DATE OF SUI	SEQUENT		DDBEGGS	b. COPIE		1	
А				SUBMISSION SEE BL	K. 16**	a.A	DDRESSEE	Draft	Fina Reg	Repro	
16.REMARKS							/QAR	*/**	1/0		
* AT TIME O	F COMPLETION OF	FIRST A	RTICI	LE TESTING		DSC:	P/PCO PP	**	1/0		
** 170051 017	OMIGGIONI OT TO CT	\T TCM*^`	1 T OM :	CARADETC 45	D AT TO TO				1,0		
	BMISSION OF PROI										
	CT COMPLETION, (QUANTITY RECOR				100% OF	—			+		
CONTRACT			l.'								
						\vdash			+		
						<u> </u>			1		
						15	TOTAL		3/0		
G.PREPAREL) BY	Н.Т	DATE	T.APP	ROVED BY	1 15.	TOTAL	J.DAT		· · · · · · · · · · · · · · · · · · ·	
Greg Wital		4	9-04					U.DAI	~		
DD Form 14	123-2, AUG 96	PREVIOU	S EDI	TION MAY BE	USED	Page	e <u>1</u>	of 3	}	Pages	

(2 Data I	tems)					OMDS NO. U	704-01	88	
The public repor	rting burden for the	is collecti	on of info	ormation is	estimated to	average 220 hou	rs per re	esponse	, including the time
for reviewing in	nstructions, search	ing existin	g data so	arces, gathe	ering and main	taining the dat	a needed,	and c	completing and
reviewing the co	ollection of informa cluding suggestions	tion. Sen	ng this h	s regarding urden to De	this burden e	stimate or any efense. Washing	otner asy rton Heado	marter	this collection of
Directorate for	Information Operat:	ions and Re	ports (07	04-0188), 12	215 Jefferson	Davis Highway,	Suite 120)4, Ar1	ington, VA 22202-4302.
Respondents show	uld be aware that no	otwithstand	ing any of	ther provis:	lon of law, no	person shall h	e subject	to an	y penalty for failing
to comply with	a collection of info ve address. Send co	ormation if	it does	not display	a currently v	alid OMB contro	for the (Plea	se DO NOT RETURN your
Block E.	ve address. Send Co	ombieced ic	III CO CITE	GOVETIMENT	issuing conti	accing officer	TOI CIRE C	, on the late	.c, IX No. 11bcca 11
A. CONTRACT L	INE ITEM NO.	B.EX	IBIT	1"	C.CATEGORY				
					TDP	TM□	OTHER!	_	
D. SYSTEM/IT	'EM	E.CO	TRACT/P	R NO.	F. CONTRAC	TOR			
=	1-136-4130								
1.DATA ITEM NO.		ITEM		·	3.SUBTITLE				
0003	REQ	UEST FOR DI	EVIATION						
4 AUTHORITY (Da	ta Acquisition Docum	ment No \	5 CONTRA	CT REFERENC	<u> </u>	6.REQUIRING C	PPICE		
	DI-CMAN-80640		3.00		-			CENTE	R PHILADELPHIA
	9.DIST STATEMENT	10FREQUEN	CY 12I	ATE OF FIRS	T SUBMISSION	14.DISTRIBUTI	ON	-	
	REQUIRED								
LT		AS REQUIR	RD				b. COPI	ES	<u> </u>
8.ADP CODE		11.AS OF	DATE 13.	DATE OF SUE	SEQUENT	1		T	
ì			SUE	MISSION		a. ADDRESSEE	Draft	Final	
16.REMARKS						Dece / Page		Reg	Repro
10.REMAKAS						DSCP/PCO	+	1/0	
ORIGINAL							 	 	
							†		
							†		
							1		
									
							+	 	
							ļ	ļ	
							 	╁	
								 	
						15.TOTAL		1/0	
1.DATA ITEM NO.	2.TITLE OF DATA	ITEM			3.SUBTITLE				
0004	91	EQUEST FOR	WATURR		1				
	ta Acquisition Docu		Ţ	CT REFERENC	F.	6.RE2QUIRING	OFFICE		
	DI-CMAN-80641		1		_	J.I.E. QUINING	011102		
			<u> </u>				NSE SUPPLY	CENTE	ER PHILADELPHIA
- :	9.DEST STATEMET REQUIRED	10.FREQUE AS REQUIR		DATE OF FIR	RST SUBMISSION				
LT	REQUIRTED	AS REQUIR	ED			14 DISTRIBUTI	ON		
8.ADP CODE		11AS OF D	ATE 131	DATE OF SUBS	SEQUENT		b. COPIE	S	
			SUE	BMISSION		a.ADDRESSEE		Final	
16 DEMARKS	****	L					Draft		Repro
16.REMARKS						NAVICP/02		1/0	
								 	
ORIGINAL									
								-	
								 	
						<u> </u>	*****		
						1.F. more:			
G.PREPARED	BY	H.D	ΔTE	מממג ד	OVED BY	15.TOTAL	T D100	1/0	
Greg Witale		3-9-		1.APPR	OAFD BA		J.DATE	i .	
a wreate		3-9-	-04			l			

Form Approved

CONTRACT DATA REQUIREMENTS LIST

DD Form 1423-2, AUG 96 PREVIOUS EDITION MAY BE USED

CONTRACT	DATA	REQUIREMENTS	LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of

							C. CATEGORY:					ed in Block E.		
CONT	COLLEGE 22 AV. C.								OTHER					
				1			TDP	TM						
	EM/ITE				E. CONTR	ACT/P	R NO.	F. CONTRACT	OK					
3:	110-0	1-13	36-4130											
DATA IT			2. TITLE O			101 DE	2020	3. SUBTITLE	CERTIF	ICATIO	ıs			
	0005		<u> </u>		FICATION D	ATA KEI	1 To Table 1	<u> </u>	6. REQUIRING					
. AUTHORITY (Data Acquisition Document No.) DI-MISC-80678/T							5. CONTRACT REFERENCE SEE BLOCK 16				DSCR-COLUMBUS			
DI-MISC-8007871 DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY		NCY	12. DATE OF FIR		14. DISTRIBUTION									
LT REQUIRED			AS REQUIRED		SEE BI	OCK 16*		b. COI	COPIES					
ADP CO	DE				11. AS OF	DATE	13. DATE OF SUB					Final		
A								ISSION OCK 16**	a.ADDRESSEE	Draft	Reg	Repro		
REMA	DVC						525 55	Jen 20		<u> </u>	1			
			0110001		ANTO 10 5	A DDY 7	7		NADEP	1				
ARA. I	0.1, 10	.2,10	2.1,10.2.2,1	10.2.4,	AND 10.5	APPL	1		Chrypt	↓	<u>. </u>			
								.		*/**	1/0			
							SAMPLES AN	ט	DCMC/ACO	*/**	1/0			
ON SU	UBMIS	SION	OF PROD	UCTIC	ON LOT SA	MPLI	28		CAO/PCO	 	1.,0			
OCV -	#2. CET	A D A	TE DEDAE	יים פדי	מממ זוגו	BU/\I	DED FOR THE	REI OW		 	\vdash	-		
							R PRIME PROC							
TEDI	IVI CDI		ICATIONS	CHILL	INCIDA	JE C.E.	RTIFICATION	THAT ALL						
	DC DED	ECH	MINIC THE	GE DD	OCESSES	AREI	PRIME, (OEM)	Sikorsky	·		↓	ļ		
			VED SOUR		OCESSES	VICT: 1	KIMIE, (OLIVI)	DIROTSKY		 	┿			
KCKA	TI, AF	rko	VED SOOF	CES.						+	╁			
OCK :	#5: CO	NTR	ACT REFE	RENCI	E:									
											$oxed{\Box}$			
1 .	CEDTI	EIC Y	TION OF A	A DDD ∩	VED MAT	ERIA	· 6·			 	┼			
							5441 Retainer N	Ivlon		+	╁┈			
	1714. (7	0200	, 03/31-07.	20-20	1, 2111001	70 01 (THE ROUBLING A	.,101						
2.	CERTI	FICA	TION OF A	APPRO	VED SOU	RCES	FOR:				$oldsymbol{oldsymbol{oldsymbol{eta}}}$			
			PECT BEA							╅—	╄	<u> </u>		
	b)						AMS 2640F			+	╁			
	-,				_		BILIZED FOR M	IIN.		+	+-	 		
	۷)		TORTION				, , , , , , , , , , , , , , , , , , ,							
	d)						001 MAX. PER	AMS 2418A.						
	۵,		MS. TO BE							 	-	 		
	e)	IN	VER RING	TO PR	OTRUDE	.1875 -	+00025 AS SH	OWN IN F/D	·	+	1			
	f)	PE	RMANENT	LY M	ARK POIN	T OF	MAX. LATERA	L						
	•	EC	CENTRICI	TY ON	OUTER I	RING F	FACE.			-	+	_		
	g)									+	+			
										1				
										+	+-	+		
										+-	+	-		
										1	T			
									15		1.	.+		
Dono	ARED BY	,			H. DATE	-	Tr approxima	- DV	15. TOTAL	+	14/	v I		
FKEP	ARED B	ı			į.	0.4	I. APPROVED	91		J. D	ATE			
	GREG	. W	TALEC		3-9-	-04	1							
		• • •	·							1				